# **MTP U Series**

## UNIVERSAL MTP - MINITWISTED PAIR RECEIVERS









MTP U R RSA SEQ

The MTP U Series Universal Receivers are designed to accept a wide range of video formats, along with RS-232 or audio signals, on a single UTP cable. When used with Extron MTPX and MTPX Plus Series matrix switchers, MTP U Series receivers eliminate the need for multiple receiver units and multiple cables per display, and dramatically reduce the number of matrix switcher outputs required.

- **■** Compatible with MTPX and MTPX Plus Series matrix switchers and all MTP Series transmitters
- Automatically routes incoming UTP signal to appropriate video, audio, and RS-232 connector
- Supports RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, and composite video
- **■** Compatible with HDTV component video, bi-level or tri-level sync
- Separate variable RGB level and peaking controls
- Independent skew adjustments for each color - SEQ models only
- Versatile mounting options
- **■** External international power supply included



## DESCRIPTION

The Extron MTP U Series Universal Mini Twisted Pair Receivers accept a wide variety of video formats along with RS-232 or audio signals on a single UTP cable, providing dramatic cost savings with superior performance in complex twisted pair matrix switching applications. With advanced features, including the ability to automatically route the incoming UTP signal to the appropriate video, audio, and RS-232 output connector, systems require only one receiver, one cable, and one matrix switcher output for each display.

MTP U Series universal receivers are fully compatible with Extron MTPX and MTPX Plus Series Mini Twisted Pair Matrix Switchers and all MTP Series transmitters. The compact units can fit just about anywhere: in equipment racks, under tables, or near a display.

#### **Automatic Signal Format Detection**

MTP U Series universal receivers automatically detect the UTP format of the incoming video signal, as well as any incoming audio or RS-232 control signal. The incoming signals are then routed to the appropriate output connectors. Only one video output connector will be active at any time. The other video connectors are muted. This is ideal for applications that use display devices set to auto detect mode.

#### **Next Generation of Twisted Pair Integration**

When used together with the Extron MTPX and MTPX Plus Series Mini Twisted Pair Matrix Switchers, MTP U Series universal receivers facilitate system integration and eliminate many of the headaches normally encountered with other twisted pair solutions.

## **FEATURES**

- Compatible with MTPX and MTPX Plus Series matrix switchers and all MTP Series transmitters
- Automatically routes incoming UTP signal to appropriate video, audio, and RS-232 connector
- Supports RGBHV, RGBS, RGsB, RsGsBs, component video, S-video, and composite video
- Compatible with HDTV component video, bi-level or tri-level sync
- Separate variable level and peaking controls
- Indepen dent skew adjustments for each color, SEQ models only
- Versatile mounting options
- External international power supply included

## **MODELS**

### MTP URA

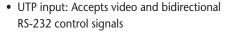
Universal MTP – Mini Twisted Pair Receiver for Video and Audio

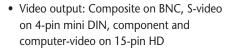
- UTP input: Accepts video and audio signals
- Video output: Composite on BNC, S-video on 4-pin mini DIN, component and computer-video on 15-pin HD



#### MTP URRS

Universal MTP – Mini Twisted Pair Receiver for Video and RS-232







#### MTP U R RS SEQ

Universal MTP – Mini Twisted Pair Receiver for Video and RS-232 with Skew Equalization



- Video output: Composite on BNC, S-video on 4-pin mini DIN, component and computer-video on 15-pin HD
- Independent skew equalization for each color



#### MTP U R RSA SEQ

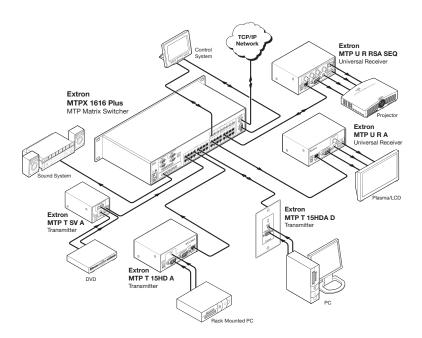
Universal MTP – Mini Twisted Pair Receiver for Video, Audio, and RS-232 with Skew Equalization



- UTP input: Accepts video with audio or video with bidirectional RS-232 control signals
- Video output: Composite on BNC, S-video on 4-pin mini DIN, component on three BNCs, and computer-video on 15-pin HD
- Independent skew equalization for each color

**SPECIFICATIONS** 

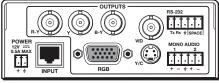
VIDEO		CONTROL/REMOTE – EXTERNAL DEVICE	
Gain	Unity	Pass-through, unidirectional or bidirectional	
VIDEO INPUT		(MTP U R RSA SEQ, MTP U R RS SEQ or MTP U R RS)	
		Serial control port input/output RS-232 via (1) 3.5 mm, 3 pole captive	
Connectors		screw connector	
	,	NOTE: The serial communications link of an MTP U R RSA SEQ,	
VIDEO OUTPUT		MTP U R RS SEQ or MTP U R RS is unidirectional only, transmitter to receive unless the receiver's internal switch has been set.	er,
Number/signal type		Baud rates	1)
	(follows input type)	(Higher data rates and distances are	
Connectors		possible. Performance will vary based	on
MTP U R RSA SEQ		baud rate and cable length.)  Protocol Data bits = 5 - 8	
	3 BNC female for Y, R-Y, B-Y (1) 4-pin mini DIN for S-video (Y/C)	Stop bits = 1 or 2	
	1 BNC female for composite video	Parity = odd, even, none	
All other models		Flow control = XON, XOFF, none	
	(1) 4-pin mini DIN for S-video (Y/C) 1 BNC female for composite video	NOTE: Protocol is mirrored between the transmitter and the receiver.	
Nominal level		Serial control pin configurations Captive screw connectors: 1 = TX, 2 =	RX,
	S-video, and for composite video	3 = GND	
	0.7 Vp-p for RGB and for R-Y and B-Y of	GENERAL	
	component video 0.3 Vp-p for C of S-video	External power supply 100 VAC to 240 VAC, 50/60 Hz, extern	nal
Minimum/maximum levels		universal; to 12 VDC, 2 A, regulated	iui,
Impedance		Power input requirements 12 VDC, 0.5 A	
	<-30 dB @ 5 MHz (during video output only)	Temperature/humidity Storage: -40 to +158 °F (-40 to +70 °C 10% to 90%, noncondensing	.) /
DC offset	<±20 mV with input at 0 offset	Operating: +32 to +122 °F (0 to +50 °C	C) /
SYNC		10% to 90%, noncondensing	-,,
Output type	RGBHV, RGBS	Cooling	
		Rack mount	nls®
Output impedance		rack shelf, part #60-190-20 or 60-604-	
		Also furniture mountable with optional	l Mini
AUDIO – MTP U R RS	SA SEO MIDLIDA	Under-Desk Mounting Kit, part #70-21 or projector mountable with optional	2-01
		projector mountable with optional projector mounting kit, part #70-217-0	01
Gain	balanced output: 0 dB;	Enclosure type Metal	
Frequency response		Enclosure dimensions	arter
	with jumpers 4 and 5 installed)	rack wide) 4.3 cm H x 10.9 cm W x 7.6 cm D	
THD + Noise		(Depth excludes connectors.)	
S/N	>70 dB at maximum output (unweighted)	Product weight 0.6 lbs (0.3 kg)	
	1 1	Shipping weight	rancit
	U R RSA SEQ, MTP U R A	Vibration	ansit
See MTP Series transmitters'	audio output specifications	Listings UL, CUL	
Number/signal type		Compliances CE, FCC Class A, VCCI, AS/NZS, ICES	
Connectors		MTBF	
<b>NOTE</b> : 0 dBu = 0.775 Vrms,	0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu	NOTE: All nominal levels are at ±10%.	
AUDIO OUTPUT – M	TP U R RSA SEQ, MTP U R A		
	2 mono, balanced/unbalanced	Model Version Description Part Num	
Connectors	(1) 3.5 mm captive screw connector, 5 pole	MTP U R RSA SEQ A/V & RS-232 Universal Receiver w/SEQ 60-869-0 MTP U R RS SEQ Video & RS-232 Universal Receiver w/SEQ 60-869-0	
Impedance		MTP U R A Video & Audio Universal Receiver W/522 60-869-0	
Gaill EllOI	IT UD CHAIITEI TO CHAIITEI	MTP U R RS Video + RS-232 Universal Receiver 60-869-0-	4



## PANEL DRAWINGS



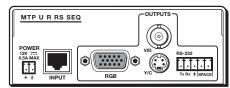
MTP U R RSA SEQ - Front



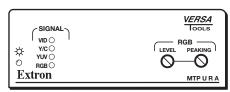
MTP U R RSA SEQ - Back



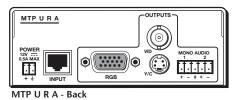
MTP U R RS SEQ - Front



MTP U R RS SEQ - Back



MTP U R A - Front



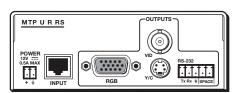
SIGNAL TOOLS

VERSA TOOLS

ROB
VICO
ROBO
ROBO
Extron

NATPUR RS

MTP U R RS - Front



MTP U R RS - Back



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